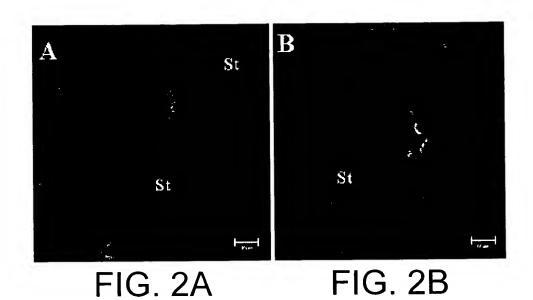
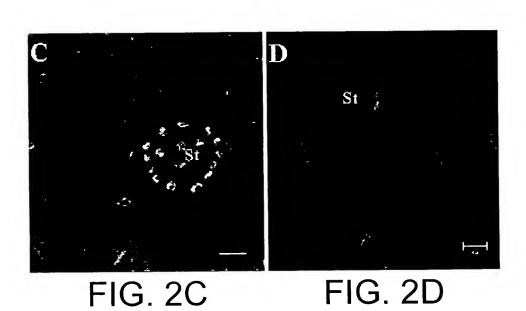
0 0 7 4 4	120	180	232	292	328
	80	135	187	247	286
	64	118	168	228	266
	64	120	178	237	271
PELAGETPRI DDNSKGLERV MNRI	RVNYTCVEVI RVLYTAMDIV RIVYTAIDVL RVVYDFVNVI	PEFSPDFIII .ELGFQFVLI .DKFDYIII	GEEPIKEH	VLNKPPTLAG VLNKKLTLSG VMEEKLSVPG ILDINA.DAG	Arabidopsis Chlorella Synnechocystis E. coli
IRSVLQFNRK MVFSTGNGNG	NLDLLLGLEN	EWLVDALKRT	LECDGIRDIK	IRSTNRGFPL	Arabidopsi
	NLDLLLGLEN	QNLIDSVK	LEANGIYNVK	IISTNKGEPL	E Chlorella
	NLDLLLGLEQ	LVEQLK	LEAEDIGKIS	IISTNKGEPL	Synnechocy
	NLDLIMGERR	.KVLDDLK	LASKSRRAEN	LRASNQGEPV	E. coli
FVNNPSRRSP	VAIDADLGLR	LPMGFGGKAL	LRDADRVTGL	LGVIPEDSEV	.FF.SFFGG
	ALIDADIGLR	YNVTTKNM	IRDADRVAGL	LGAIPEDTSV	.LQE.FFLGEI
	VLIDADFGLR	DAINAEQMSQ	VRDADRVIGL	IGILPDDQKI	RIRRRLLGG
	VVIDFDIGLR	DADLTREGVA	VRDSDRILGI	VGVIPEDQSV	.FLKRLFGG
SQKTLISSPR	LSLARYGFSV	LLCISKPRSK	VLVTTPDITA	DVQEMLGLSL	MVEEEPKKRG
	MSIARLGYRV	LLAISKNRQK	VIVTTPEITA	DVQEMLGIPL	TSPQKGMFQK
	AALARLGKKV	LLPAAQNRSK	IIVTTPEMSA	DILDLLAVPL	FMAAHNTLLN
	TGLAQKGKKT	ILPASQTRDK	AIITTPEVSS	DVLEILTIKL	FIEEE.KK.G
HQSLLLPSSL	GKTTTTANVG	VRDKRWSNFE	ITAITPANEA	IKGEDMMSVL	.VEQDSMKAV
	GKTTTTANLG	IRDKRWKNLA	INAIASAQEA	IQKNDMMSVR	IGKQDYFIDL
	GKTTTSAAIA	VKDKRLPNLV	RNAVAPAQEA	VQLNQMISVE	EG.QDIPFLD
	****	IKDKRTENLY	ALMALYFADE	VSRGDMLSME	LGEERPFR
MASLRLFSTN	VVITSGKGGV	NGDCRIDQAL	DCPAGIDAFG	MIVNRVRTDM	LAFEQAAWRL
	IVITSGKGGV	EGQCRIDQAL	DCPAGIDVGF	LLVNRVRPDM	IAFENAARRL
	IVVTSGKGGV	EDECTIDQAL	DCPAGIEAGF	LIVNRLRPEM	LAFQNIARRL
	IVVTSGKGGV	QGDATLNQAL	DSPAGIETGF	LLLTRYNPGR	KAYADTVERL

APPLN. FILING DATE: PEBRUART 0, 2002 TITLE: TRANSGENIC PLANTS. . . GENE EXPRESSION INTOR(S): RANDY DINKINS ET AL.

A. LICATION SERIAL NO: 10/067,989

S.. 2 of 13





APPLN. FILING DATE: FEBRUARY 8, 2002

TITLE: TP ^ NSGENIC PLANTS. . . GENE EXPRESSION

INVENTO RANDY DINKINS ET AL.

APPLICATION SERIAL NO: 10/067,989 SHEET 3 o. _3

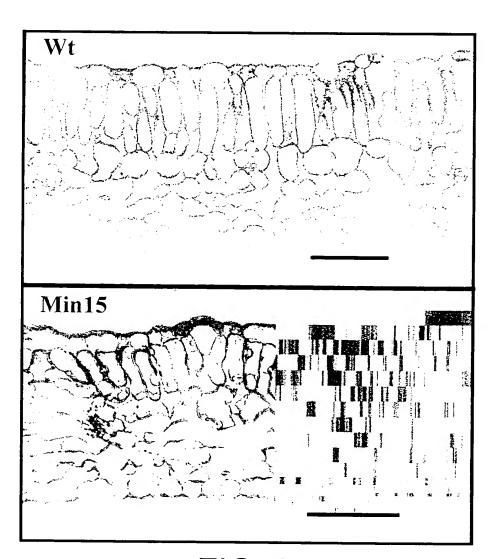
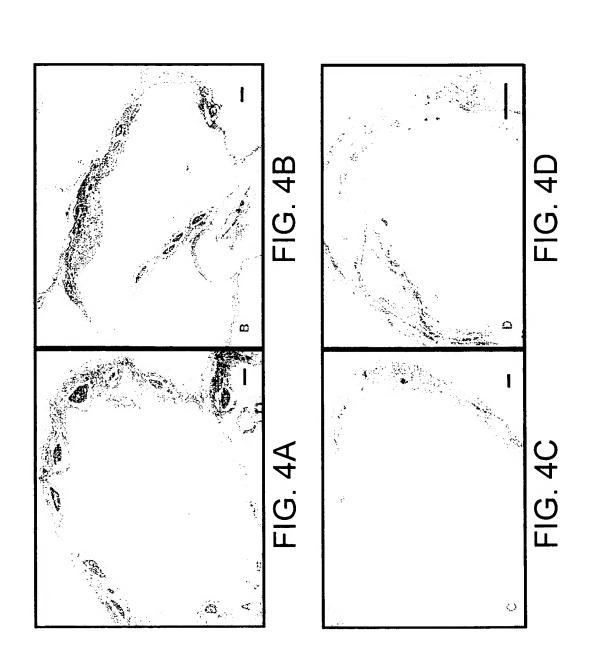


FIG. 3



APPLN. FILING DATE: FEBRUART 0, 2002
TITLE: TD ANSGENIC PLANTS. . . GENE EXPRESSION
INVENT :): RANDY DINKINS ET AL.
APPLICATION SERIAL NO: 10/067,989 SHEET 5 ... 13

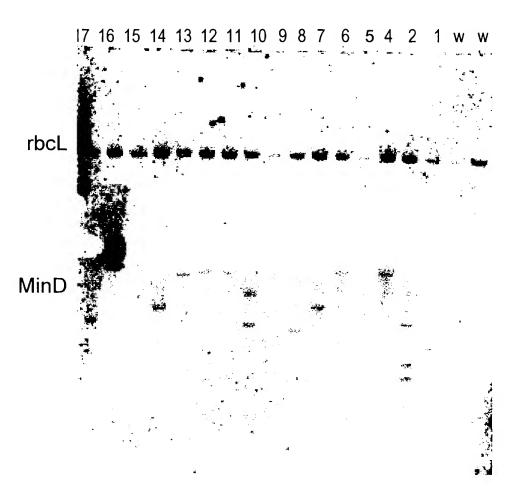


FIG. 5

TITI FO TRANSGENIC PLANTS...GENE EXPRESSION IN OR(S): RANDY DINKINS ET AL.

APPLICATION SERIAL NO: 10/067,989 SHEL. 6 of 13

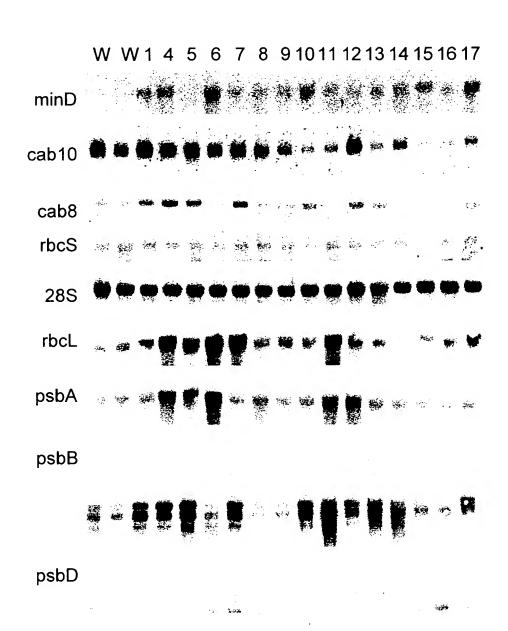


FIG. 6

APPLN. FILING DATE: FEBRUARY 8, 2002
TITLE: TPANSGENIC PLANTS. . . GENE EXPRESSION
INVENTO: RANDY DINKINS ET AL.
APPLICATION SERIAL NO: 10/067,989
SHEET 7 0.-3

	Chlorophyl	l Content	Fluorescence Measurements									
Line	Total Chl		Fo	Fm	Fv/Fm							
-	(ug/mg)	(ratio)	(relative units)	(relative units)	(relative units)							
WT	1.99	3.11	137.4±12.0	616.6±34.0	0.777±0.015							
AtMin 4		2.64	135.7±11.8	636.2 ± 27.1	0.787 ± 0.013 0.787 ± 0.017							
AtMin 5		3.01	136.5±17.1	534.9±66.1	0.757 ± 0.020							
AtMin 8	3 1.46	3.07	128.5 ± 32.3	489.9±78.6	0.741 ± 0.037							
AtMin 9	9 1.66	3.00	125.5 ± 19.9	520.5 ± 58.3	0.759 ± 0.018							
AtMin	10 1.53	2.95	136.5 ± 11.3	543.1 ± 14.3	0.748 ± 0.025							
AtMin :	17 1.44	2.71	139.5±20.6	564.9 ± 32.7	0.756 ± 0.032							
******	1 (0	2 00	105 (114 0	441.0.50.5	0.760+0.016							
WT	1.69	3.08	105.6 ± 14.9	441.9±58.5	0.760 ± 0.016							
AtMin :	1 1.74	2.80	126.4 ± 08.6	436.7 ± 27.2	0.714 ± 0.035							
AtMin :	12 1.60	3.11	123.4 ± 16.6	455.3 ± 84.4	0.724 ± 0.040							
AtMin	13 1.91	3.28	115.9 ± 17.9	441.5±64.5	0.737 ± 0.011							
AtMin :	14 1.59	3.07	113.6 ± 17.2	444.1±58.2	0.743 ± 0.017							
AtMin :	15 1.59	2.94	119.1 ± 19.5	433.0±45.9	0.724 ± 0.037							
AtMin :	16 1.71	2.89	122.1 ± 10.7	447.7±41.0	0.725±0.019							

The measurements were taken over two days, and due to variation in the F_o and F_M measurements these were kept separate. Fluorescence measurements are averaged from eight samples.

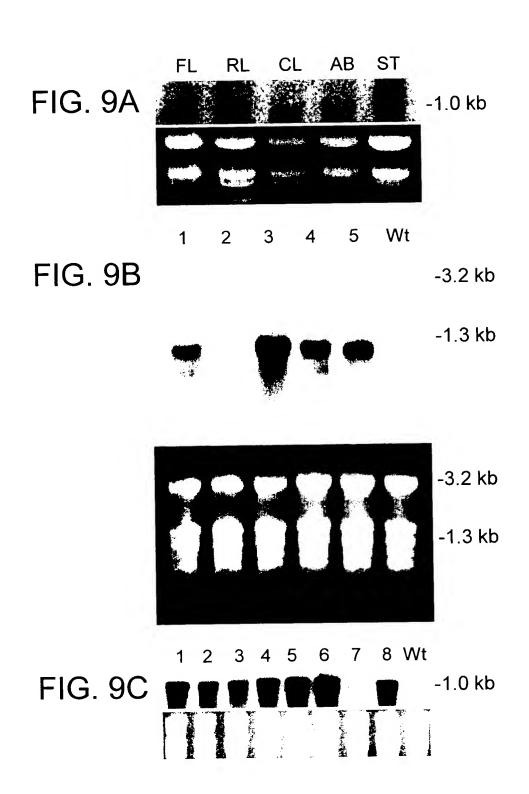
FIG. 7

APPLN. FILING DATE: FEBRUARY 8, 2002
TITLE: TRANSGENIC PLANTS...GENE EXPRESSION
INVENTO: RANDY DINKINS ET AL.
APPLICAT...SERIAL NO: 10/067,989
SHEET 8 o.

1	1	1	. 1	1	1 1 MATLLQQGTFAPHRSWSGRKGTRRVSKPTLNRLHVRSSSKAGAGPVSD 48	1 MAMSSGTLRISATLVSPYHHHHRNRLSLPS♥SSK♥VDFTGFISNGVNSLETQKCTPGLAISRENTRGQVKVLARNTGD 77	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 MAILDFFLSRKKNTANIAKERIQIIVAERRRSD-AEPHYLPQIRKDI 46	1	1 MSLIELIFGRKQKTATVARPRIQIIIAQERAQEGQTPDYLPTURKEL 47	49	80 YELSPSPAEQEIESFLYNAINMGFFDRLNLAMKLIPPSHASRRSSNARIAKAILKAILFSDRCDVSDEAKRKIVNNLI 154	49 WEVVSRYWEID-PGEWEFSLESD-ORMTALIAMIPVRRVRRTKAKSEAQES	48 IIIVVSKYVDID-TDSIDESIRTD-SKMTALIAMIPIRRILKDI	47 LEVICKYNOLD-PEMVINOLEQKDGDISILELANVINPEAEELK	48	48 MEVLISKYMMVS-LDMIRISQEKQDG-MDVILELMITLPEQKKV	1 123 WOAWSAWHOLETEETIEWNLSTDPELGTINSWAWPWRRVKSRRIGGVDTSEDGKIIVKWDPKDPNSDPSDQFPFGV 198	157 LHALSDEWELESEEKWOLNVSTDGDLGTLYSWIWENKP-EYODVDEAGTITNVEYKDTRDGSVDVRFDFYVPE 229	
Syne	Guill	Ecoli	Pseudo	Neiss	Chlorel	AtMinE	Syn	Guill Guill	Ecoli	Pseudo	Neiss	Chlorel	AtMinE	Syne	Guill	Ecoli	Pseudo	Neiss	Chlorel	AtMinE	

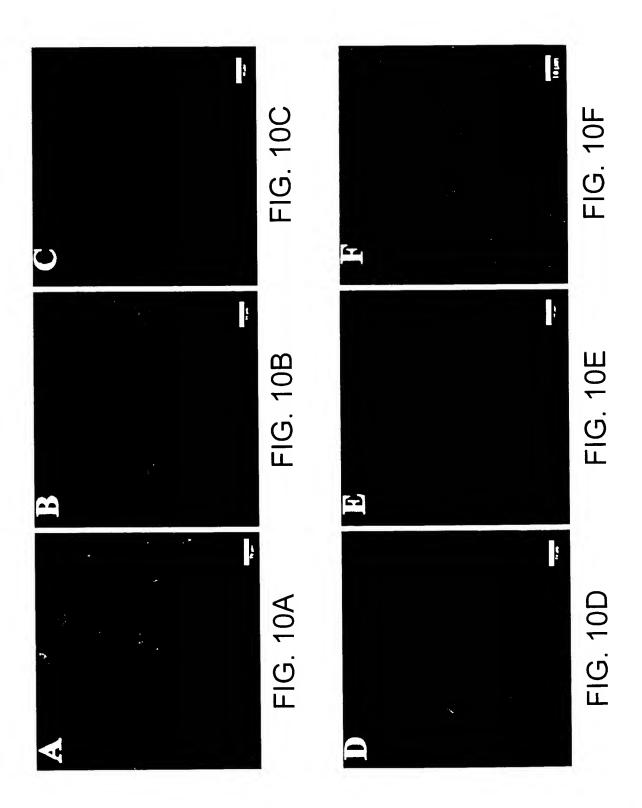
FIG. 8

APPLN. FILING DATE: FEBRUARY 8, 2002
TITLE: TO ANSGENIC PLANTS...GENE EXPRESSION
INVENTO J: RANDY DINKINS ET AL.
APPLICATION SERIAL NO: 10/067,989 SHEET 9 to 13



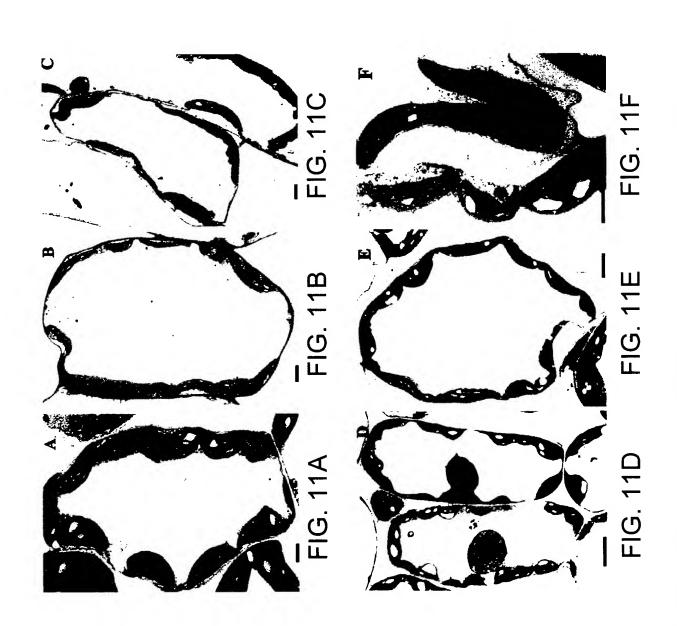
TITLE: TRANSGENIC PLANTS...GENE EXPRESSION INVENTOR RANDY DINKINS ET AL.

APPLICATION SERIAL NO: 10/067,989 SHEET 10 of ...

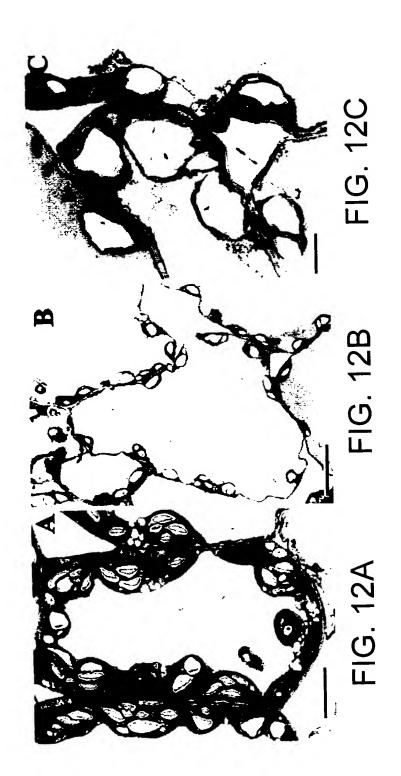


APPLN. FILING DATE: FEBRUARY 8, 2002
TITLE ANSGENIC PLANTS...GENE EXPRESSING INVEN. (S): RANDY DINKINS ET AL.
APPLICATION SERIAL NO: 10/067,989 SHEET 11 of 1.

SHEET 11 of 13



APPLN. FILING DATE: FEBRUARY 8, 2002
TITLE: TRANSCENIC PLANTS. GENE EXPRESSION
INVENTOR(S) NDY DINKINS ET AL.
APPLICATION SERIAL NO: 10/067,989 SHEET 12 of 13



TITLE: 7 NSGENIC PLANTS. GENE EXPRESSITIVENTO. RANDY DINKINS ET AL.

APPLICATION SERIAL NO: 10/067,989 SHEET 13 of 13

